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PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference T02008 PCT	FOR FURTHER ACTION	R ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/r	nonth/year)	Priority date (day/month/year)	
PCT/DE2003/002135	26 June 2003 (26.06		28 June 2002 (28.06.2002)	
International Patent Classification (IPC) or national classification and IPC G10L 15/18				
Applicant		AND CAM		
	T-MOBILE DEUTSCHLA	AND GMB	7	
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of	f 5 sheets, includ	ing this cover	sheet.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a	total of 4 sheets.			
3. This report contains indications relating to the following items:				
I Basis of the report	I Basis of the report			
II Priority	II Priority			
III Non-establishmen	t of opinion with regard to nove	lty, inventive s	step and industrial applicability	
IV Lack of unity of in				
V Reasoned stateme citations and expla	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain document	Cortain deguments sited			
VII Certain defects in	Cortain defects in the international application			
VIII Certain observation	Contain abcomptions on the intermetional application			
_			4	
Date of submission of the demand	Date	of completion	of this report	
27 January 2004 (27.	01.2004)	04	January 2005 (04.01.2005)	
Name and mailing address of the IPEA/E	P Auti	norized officer		
Facsimile No.	Tele	phone No.		



ĺ	Interna	application No.
	PCT	/DE2003/002135

I. Basis of the report					
1. With regard to the elements of the international application:*					
		mational application as originally filed			
X	the desc	eription:			
	pages	1,2,4-9	, as originally filed		
	pages		, filed with the demand		
	pages	3,3a , filed with the letter of	29 November 2004 (29.11.2004)		
	•				
M	the clai	ms:	, as originally filed		
	pages	, as amended (togethe			
	pages		, filed with the demand		
	pages pages	10-11 claims 1-5, filed with the letter of	29 November 2004 (29.11.2004)		
K-2					
\bowtie	the dra		, as originally filed		
	pages	1/6-6/6	, filed with the demand		
	pages	, filed with the letter of			
	pages	, thed with the letter of			
	the seque	ence listing part of the description:			
	pages		, as originally filed		
	pages		, filed with the demand		
1	pages	, filed with the letter of			
the	internatio ese eleme	in word available of farming	which is:		
_		nguage of a translation furnished for the purposes of international search (under	Rule 23.1(b)).		
_	the lau	nguage of publication of the international application (under Rule 48.3(b)).	1 1 1 Duly 550 and		
	or 55.				
3. Wi	ith regard	to any nucleotide and/or amino acid sequence disclosed in the interexamination was carried out on the basis of the sequence listing:	national application, the international		
Γ] conta	ned in the international application in written form.			
	filed t	ogether with the international application in computer readable form.			
	furnis	hed subsequently to this Authority in written form.			
		hed subsequently to this Authority in computer readable form.			
L	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		statement that the information recorded in computer readable form is identic furnished.	cal to the written sequence listing has		
4.	The a	mendments have resulted in the cancellation of:			
1		the description, pages			
		the claims, Nos.			
ţ.		the drawings, sheets/fig			
5.	This is	eport has been established as if (some of) the amendments had not been made d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	, since they have been considered to go		
in an	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).				
** A1	** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.				

Í	International application No.		
-	PCT	03/02135	

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v	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
٠.	citations and explanations supporting such statement

citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	1-5	YES
Novelly (14)	Claims		NO
Inventive step (IS)	Claims	1-5	YES
	Claims		NO "
L. J. serial amplicability (IA)	Claims	1-5	YES
Industrial applicability (IA)	Claims		NO

2. Citations and explanations

Reference is made to the following document:

D1: US-B1-6182039

2. Document D1 is considered the prior art closest to the subject matter of claim 1. D1 discloses (the references in parentheses relate to said document):

A method for natural voice recognition with the steps:

- analysis of a spoken phrase for triphones contained therein and formation of words contained in this phrase (30, 32, 48 and column 5, line 62), and a syntactic reconstruction of the spoken phrase using a grammar (36, 83) and a semantic selection method (38).
- The subject matter of claim 1 differs therefore from that known from document D1 in that the words formed are assigned to word categories (verb, noun, etc.) and the word categories themselves are then assigned to nominal phrases and verbal phrases. The phrases assembled after the input of various sentence models

are considered to be recognised if there is concordance.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

4. The problem addressed by the present invention can therefore be considered that of indicating a method for voice recognition based on an exact phrase structure grammar which requires fewer system resources and enables a secure and faster recognition whilst reducing overgeneration.

The solution to this problem proposed in claim 1 of the present application involves an inventive step for the following reasons (PCT Article 33(3)): although document D1 mentions a deep structure as a means of reducing overgeneration, it does not disclose how this deep structure is to be used in concrete terms. The solution is therefore novel and non-obvious to a person skilled in the art.

5. Claims 2-5 are dependent on claim 1 and therefore likewise meet the PCT novelty and inventive step requirements.